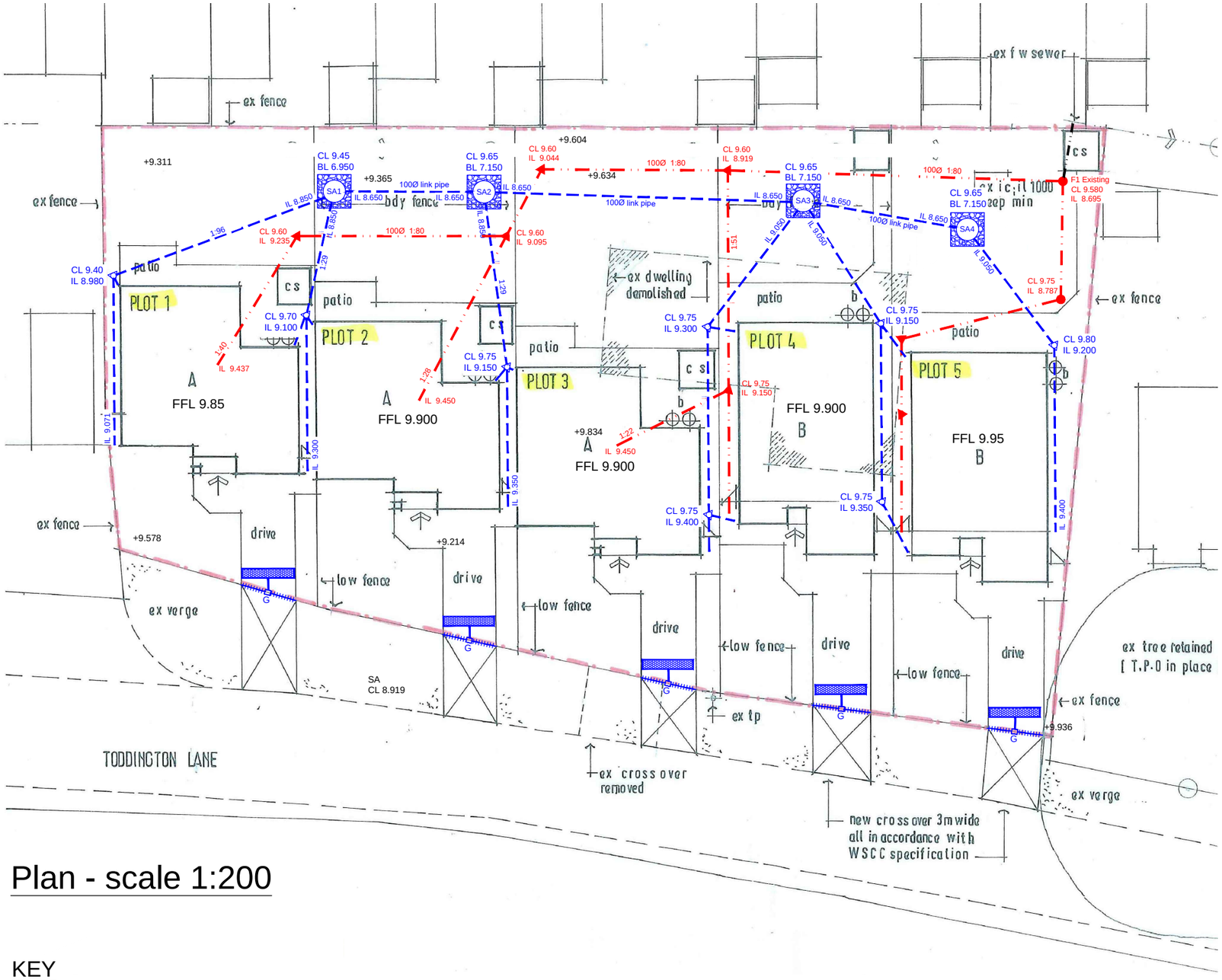
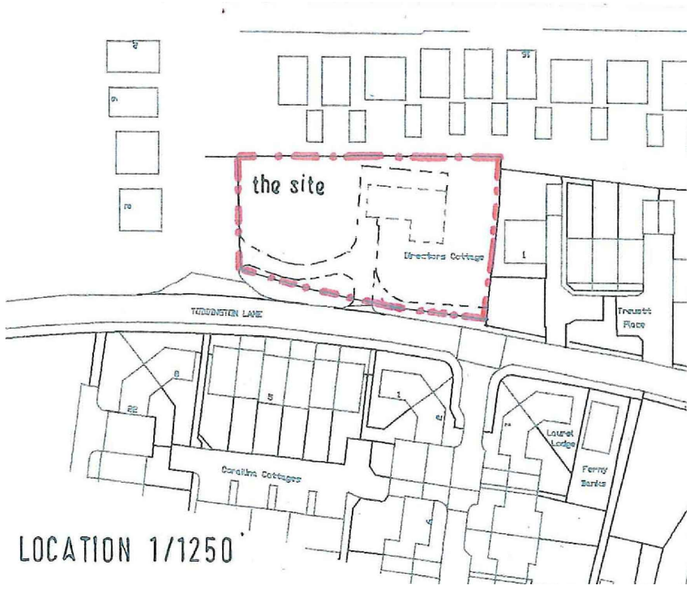



Plan - scale 1:200




Location Plan - scale 1:250

## KEY

- Proposed storm drainage 100mm dia at min 1:100
- Proposed channel drain with trapped gulley at site boundary
- Proposed 300 Dia. storm inspection chamber
- Proposed foul drainage 100mm dia at min 1:80
- Proposed 300 Dia. foul inspection chamber
- Proposed 450 Dia. foul inspection chamber
- Proposed geocellular soakaway in 2x400mm units 3m long x 0.5m wide with min.600 cover
- Proposed concrete ring soakaway 1.2m diameter x 2.5m deep
- CL #.### / CL #.### — Cover levels of ICs / concrete ring soakaways
- BL #.### — Base level of soakaway
- IL #.### / IL #.### — Invert level of foul / surface water drains
- +7.87 — Existing ground levels in meters AOD

NOTE

This drawing had been produced for discharge of planning conditions only. All levels and details to be checked for Building Regulations approval and construction purposes

## Surface Water Drainage Design Notes

The British Geological Survey records indicate the site to be underlain by River Terrace Deposits of sand, silt and clay bordering on Raised Beach deposits of sand and gravel as well as Raised Marine Deposits of clay, silt, sand and gravel underlain by Upper Chalk of the New Pit Formation.

Our own investigations revealed around 250mm of topsoil over silty sands and compact sandy silts becoming more sandy with some clay and sub-angular flints at depth. Some chalk was encountered at 2.65m in boreholes that extended to over 3.5m below ground level.

No groundwater was encountered during the investigations and subsequent monitoring has seen levels rise to a maximum of 3.47m below ground level.

The drainage design is based on percolation tests carried out to BRE365 principles in two separate test holes in early February 2018. An average soil infiltration rate of 2.713 x$10^{-5}$ m/s was obtained at depths ranging from 2.7 to 3.5m below ground level.

Concrete ring soakaways are proposed for draining all roof areas, linked as shown.

Geocells will be provided in the front to drain the drives. These will serve the channel drains via trapped gulleys as silt traps.

| Rev. | Description | Drn. | Date |
|---|---|---|---|
| - | Original | RTFC | 18.5.18 |

Project

Directors Cottage
Toddington Lane
Littlehampton

Client

LC Nicholas

Drawing Title

Drainage Layout

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| Scale | At original | Drawing Number | Revision |
|---|---|---|---|
| As shown | A3 | 1789/SK3 | - |